

(19) World Intellectual Property
Organization
International Bureau



547448

(43) International Publication Date
23 September 2004 (23.09.2004)

PCT

(10) International Publication Number
WO 2004/081011 A1

(51) International Patent Classification⁷: **C07D 487/04**,
519/00, A61K 31/5025, A61P 3/10, 17/06, 19/02, 37/00

(21) International Application Number:
PCT/GB2004/001008

(22) International Filing Date: 10 March 2004 (10.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0305876.5 14 March 2003 (14.03.2003) GB
0319429.7 19 August 2003 (19.08.2003) GB

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

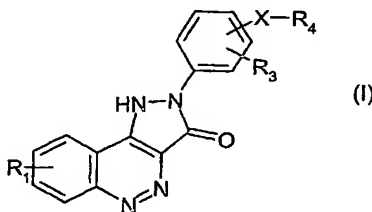
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IMMUNOMODULATING HETEROCYCLIC COMPOUNDS



(57) Abstract: Compounds of formula (I) are inhibitors of CD80 and useful in immunomodulation therapy: wherein R_1 and R_3 independently represent H; F; Cl; Br; $-NO_2$; $-CN$; C_1 - C_6 alkyl optionally substituted by F or Cl; or C_1 - C_6 alkoxy optionally substituted by F; R_4 represents a carboxylic acid group ($-COOH$) or an ester thereof, or $-C(=O)NR_6R_7$, $-NR_7C(=O)R_6$, $-NHC(=O)NR_7R_6$ or $-NHC(=S)NR_7R_6$ wherein R_6 represents H, or a radical of formula $-(Alk)_m-Q$ wherein m is 0 or 1, Alk is an optionally substituted divalent straight or branched C_1 - C_{12} alkylene, or C_2 - C_{12} alkenylene, or C_2 - C_{12} alkynylene radical or a divalent C_3 - C_{12} carbocyclic radical, any of which radicals may contain one or more $-O-$, $-S-$ or $-N(R_8)-$ links wherein R_8 represents H or C_1 - C_4 alkyl, C_3 - C_4 alkenyl, C_3 - C_4 alkynyl, or C_3 - C_6 cycloalkyl, and Q represents H; $-NR_9R_{10}$ wherein R_9 and R_{10} independently represents H; C_1 - C_4 alkyl; C_3 - C_4 alkenyl; C_3 - C_4 alkynyl; C_3 - C_6 cycloalkyl; an ester group; an optionally substituted carbocyclic or heterocyclic group; or R_9 and R_{10} form a ring when taken together with the nitrogen to which they are attached, which ring is optionally substituted; and R_7 represents H or C_1 - C_6 alkyl; or when taken together with the atom or atoms to which they are attached R_6 and R_7 form an optionally substituted monocyclic heterocyclic ring having 5, 6 or 7 ring atoms; and X represents a bond or a divalent radical of formula $-(Z)_n-(Alk)-$ or $-(Alk)-(Z)_n-$ wherein Z represents $-O-$, $-S-$ or $-NH-$, Alk is as defined in relation to R_6 and n is 0 or 1.